SEQUENCE LISTING

<110> Alnemri, Emad S.

<120> AN IAP BINDING PEPTIDE OR POLYPEPTIDE
AND METHODS OF USING THE SAME

<130> 480140.465

<140> US 09/939,293
<141> 2001-08-24

<160> 27

<170> FastSEQ for Windows Version 4.0

<210> 1
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<212> DNA
<213> Homo sapiens

B3

<220>
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                       Met Ala Ala Leu Lys Ser Trp Leu Ser Arg Ser
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gta act tca ttc ttc agg tac aga cag tgt ttg tgt gtt cct gtt gtg  100
Val Thr Ser Phe Phe Arg Tyr Arg Gln Cys Leu Cys Val Pro Val Val
             15                  20                  25

gct aac ttt aag aag cgg tgt ttc tca gaa ttg ata aga cca tgg cac  148
Ala Asn Phe Lys Lys Arg Cys Phe Ser Glu Leu Ile Arg Pro Trp His
         30                  35                  40

aaa act gtg acg att ggc ttt gga gta acc ctg tgt gcg gtt cct att  196
Lys Thr Val Thr Ile Gly Phe Gly Val Thr Leu Cys Ala Val Pro Ile
     45                  50                  55

gca cag aaa tca gag cct cat tcc ctt agt agt gaa gca ttg atg agg  244
Ala Gln Lys Ser Glu Pro His Ser Leu Ser Ser Glu Ala Leu Met Arg
 60                  65                  70                  75

aga gca gtg tct ttg gta aca gat agc acc tct acc ttt ctc tct cag  292
Arg Ala Val Ser Leu Val Thr Asp Ser Thr Ser Thr Phe Leu Ser Gln
                 80                  85                  90

acc aca tat gcg ttg att gaa gct att act gaa tat act aag gct gtt  340
Thr Thr Tyr Ala Leu Ile Glu Ala Ile Thr Glu Tyr Thr Lys Ala Val
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             95                  100                 105

tat acc tta act tct ctt tac cga caa tat aca agt tta ctt ggg aaa   388
Tyr Thr Leu Thr Ser Leu Tyr Arg Gln Tyr Thr Ser Leu Leu Gly Lys
        110                 115                 120

atg aat tca gag gag gaa gat gaa gtg tgg cag gtg atc ata gga gcc   436
Met Asn Ser Glu Glu Glu Asp Glu Val Trp Gln Val Ile Ile Gly Ala
    125                 130                 135

aga gct gag atg act tca aaa cac caa gag tac ttg aag ctg gaa acc   484
Arg Ala Glu Met Thr Ser Lys His Gln Glu Tyr Leu Lys Leu Glu Thr
140                 145                 150                 155

act tgg atg act gca gtt ggt ctt tca gag atg gca gca gaa gct gca   532
Thr Trp Met Thr Ala Val Gly Leu Ser Glu Met Ala Ala Glu Ala Ala
                160                 165                 170

tat caa act ggc gca gat cag gcc tct ata acc gcc agg aat cac att   580
Tyr Gln Thr Gly Ala Asp Gln Ala Ser Ile Thr Ala Arg Asn His Ile
            175                 180                 185

cag ctg gtg aaa ctg cag gtg gaa gag gtg cac cag ctc tcc cgg aaa   628
Gln Leu Val Lys Leu Gln Val Glu Glu Val His Gln Leu Ser Arg Lys
        190                 195                 200

gca gaa acc aag ctg gca gaa gca cag ata gaa gag ctc cgt cag aaa   676
Ala Glu Thr Lys Leu Ala Glu Ala Gln Ile Glu Glu Leu Arg Gln Lys
    205                 210                 215

aca cag gag gaa ggg gag gag cgg gct gag tcg gag cag gag gcc tac   724
Thr Gln Glu Glu Gly Glu Glu Arg Ala Glu Ser Glu Gln Glu Ala Tyr
220                 225                 230                 235

ctg cgt gag gat tga gggcctgagc acactgccct gtctccccac tcagtgggga   779
Leu Arg Glu Asp  *
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aagcaggggc agatgccacc ctgcccaggg ttggcatgac tgtctgtgca ccgagaagag 839
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<210> 2
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Ala Leu Met Arg Arg Ala Val Ser Leu Val Thr Asp Ser Thr Ser Thr
            20   25   30
Phe Leu Ser Gln Thr Thr Tyr Ala
        35   40

<210> 3
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<213> Homo sapiens

<220>
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<400> 3
Gln Ala Cys Xaa Gly
 1   5

<210> 4
<211> 7
<212> PRT
<213> Homo sapiens

B3
wt

<400> 4
Met Lys Ser Asp Phe Tyr Phe
 1   5

<210> 5
<211> 5
<212> PRT
<213> Homo sapiens

<400> 5
Ala Val Pro Ile Ala
 1   5

<210> 6
<211> 7
<212> PRT
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<400> 6
Ala Val Pro Ile Ala Gln Lys
 1   5

<210> 7
<211> 30
<212> PRT
<213> Homo sapiens

<400> 7
Ala Val Pro Ile Ala Gln Lys Ser Glu Pro His Ser Leu Ser Ser Glu
 1   5   10   15
Ala Leu Met Arg Arg Ala Val Ser Leu Val Thr Asp Ser Thr
            20   25   30

<210> 8
<211> 39
<212> PRT
<213> Homo sapiens

<400> 8
Ala Val Pro Ile Ala Gln Lys Ser Glu Pro His Ser Leu Ser Ser Glu
 1   5   10   15
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            20   25   30
Phe Leu Ser Gln Thr Thr Tyr
        35

B3
WA

<210> 9
<211> 9
<212> PRT
<213> Homo sapiens

<400> 9
Met Lys Ser Asp Phe Tyr Phe Gln Lys
 1   5

<210> 10
<211> 8
<212> PRT
<213> Homo sapiens

<400> 10
Thr Asp Ser Thr Ser Thr Phe Leu
 1   5

<210> 11
<211> 35
<212> PRT
<213> Homo sapiens

<400> 11
Ala Val Pro Ile Ala Gln Lys Ser Glu Pro His Ser Leu Ser Ser Glu
 1   5   10   15

Ala Leu Met Arg Arg Ala Val Ser Leu Val Thr Asp Ser Thr Ser Thr
            20   25   30
Phe Leu Ser
        35

<210> 12
<211> 9
<212> PRT
<213> Homo sapiens

<400> 12
Ile Glu Thr Asp Ala Val Pro Ile Ala
 1   5

<210> 13
<211> 4
<212> PRT
<213> Homo sapiens

<400> 13
Ala Val Pro Ile
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B3 cont

<210> 14
<211> 4
<212> PRT
<213> Homo sapiens

<400> 14
Ala Thr Pro Phe
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<210> 15
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<212> PRT
<213> Drosophila sp.

<400> 15
Ala Val Ala Phe
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<210> 16
<211> 4
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<213> Drosophila sp.

<400> 16
Ala Val Pro Phe
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<210> 17
<211> 4
<212> PRT
<213> Mus musculus

<400> 17
Ala Val Pro Tyr
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<210> 18
<211> 4
<212> PRT
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<400> 18
Ala Thr Pro Val
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<210> 19
<211> 239
<212> PRT
<213> Homo sapiens

B3 cont

<400> 19

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 1               5                  10                  15
Arg Tyr Arg Gln Cys Leu Cys Val Pro Val Val Ala Asn Phe Lys Lys
            20                  25                  30
Arg Cys Phe Ser Glu Leu Ile Arg Pro Trp His Lys Thr Val Thr Ile
        35                  40                  45
Gly Phe Gly Val Thr Leu Cys Ala Val Pro Ile Ala Gln Lys Ser Glu
    50                  55                  60
Pro His Ser Leu Ser Ser Glu Ala Leu Met Arg Arg Ala Val Ser Leu
65                  70                  75                  80
Val Thr Asp Ser Thr Ser Thr Phe Leu Ser Gln Thr Thr Tyr Ala Leu
                85                  90                  95
Ile Glu Ala Ile Thr Glu Tyr Thr Lys Ala Val Tyr Thr Leu Thr Ser
            100                 105                 110
Leu Tyr Arg Gln Tyr Thr Ser Leu Leu Gly Lys Met Asn Ser Glu Glu
        115                 120                 125
Glu Asp Glu Val Trp Gln Val Ile Ile Gly Ala Arg Ala Glu Met Thr
    130                 135                 140
Ser Lys His Gln Glu Tyr Leu Lys Leu Glu Thr Thr Trp Met Thr Ala
145                 150                 155                 160
Val Gly Leu Ser Glu Met Ala Ala Glu Ala Ala Tyr Gln Thr Gly Ala
                165                 170                 175
Asp Gln Ala Ser Ile Thr Ala Arg Asn His Ile Gln Leu Val Lys Leu
            180                 185                 190
Gln Val Glu Glu Val His Gln Leu Ser Arg Lys Ala Glu Thr Lys Leu
        195                 200                 205
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Ala Glu Ala Gln Ile Glu Glu Leu Arg Gln Lys Thr Gln Glu Glu Gly
210 215 220
Glu Glu Arg Ala Glu Ser Glu Gln Glu Ala Tyr Leu Arg Glu Asp
225 230 235

<210> 20
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<212> PRT
<213> Homo sapiens

<400> 20
Ala Val Pro Ile Ala Gln Lys Ser Glu Pro His Ser
1 5 10

<210> 21
<211> 14
<212> PRT
<213> Homo sapiens

<400> 21
Met Lys Ser Asp Phe Tyr Phe Gln Lys Ser Glu Pro His Ser
1 5 10

B3 cont

<210> 22
<211> 40
<212> PRT
<213> Homo sapiens

<400> 22
Ala Val Pro Ile Ala Gln Lys Ser Glu Pro His Ser Leu Ser Ser Glu
1 5 10 15
Ala Leu Met Arg Arg Ala Val Ser Leu Val Thr Asp Ser Thr Ser Thr
20 25 30
Phe Leu Ser Gln Thr Thr Tyr Ala
35 40

<210> 23
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Deletion mutant of Smac

<400> 23
Ala Gln Lys Ser Glu Pro His Ser Leu Ser Ser Glu Ala Leu Met Arg
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Arg Ala Val Ser Leu Val Thr Asp Ser Thr Ser Thr Phe Leu Ser Gln
20 25 30
Thr Thr Tyr Ala

35

<210> 24
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Deletion mutant of Smac

<400> 24
Ala Val Ser Leu Val Thr Asp Ser Thr Ser Thr Phe Leu Ser Gln Thr
1 5 10 15
Thr Tyr Ala

<210> 25
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Deletion mutant of Smac

<400> 25
Ala Val Pro Ile Ala Gln Lys Ser
1 5

<210> 26
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Deletion mutant of Smac

<400> 26
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Ala Leu Met Arg Arg Ala Val Ser Leu Val Thr Asp Ser Thr
20 25 30

<210> 27
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<212> PRT
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<220>
<223> Deletion mutant of Smac

<400> 27

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Ala Val Pro Ile Ala Gln Lys Ser Glu Pro His Ser Leu Ser Ser Glu
 1               5                  10                  15
Ala Leu Met Arg Arg Ala Val Ser Leu Val Thr Asp Ser Thr Ser Thr
            20                  25                  30
Phe Leu Ser Gln Thr Thr Tyr
        35
```

B3